



17

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SEQUENCE LISTING

<110> Sepp Kaul
Josef Preiherr (Deceased)
Ulrich Weidle

<120> A nucleic acid which is upregulated in human tumor cells, a protein encoded thereby and a process for tumor diagnosis

<130> Case 20678

<140> US 09/864,954
<141> 2001-05-24

<150> EP00110953.7
<151> 2000-05-26

<150> EP00115369.1
<151> 2000-07-15

<160> 12

<170> PatentIn Ver. 2.1

<210> 1
<211> 2342
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (459) .. (848)

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ggaggccctg cttcctgcga gctgtcccg caggacagag actcttcccg ccgcggccct 120

gccattccag gctgaggctg tgagcagcac catgacaagc tccggccgca gtggctctca 180

acagtgtggg tctctgacca cccgacgagc tggaagtgca gaccgctgac ctcccttgag 240

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aacctactgg gttcttgcag taggctcctc agcggtgtct aaacacgc当地 300

tctatgcacc atcacattgg aaactttttt cattgactgt tacttaatga gaagacttcc 360

ctccggatg gttctgaagc ttccttcata ggagcaagcc tttggcggag agcaactgagc 420

agacgtgcag catcttgct ggcttctacc gaaacacc atg gat cca gac gtg gtt 476

Met	Asp	Pro	Asp	Val	Val
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ttg tgg tcc tgc acg tgg aag cca gcc ctg cgt ggg gtg agc ctg gga 524

Leu	Trp	Ser	Cys	Thr	Trp	Lys	Pro	Ala	Leu	Arg	Gly	Val	Ser	Leu	Gly
10						15							20		

ctg tgg gca gag aac ctc aag cac cgg gcc ggc acc caa gtg cag aga 572

Leu	Trp	Ala	Glu	Asn	Leu	Lys	His	Arg	Ala	Gly	Thr	Gln	Val	Gln	Arg
25					30						35				

ctg cat cgt ccc agc agg agg cgc tgc ttc cag gct ccc tgg acg gac 620

Leu	His	Arg	Pro	Ser	Arg	Arg	Arg	Cys	Phe	Gln	Ala	Pro	Trp	Thr	Asp
40					45				50						

tcc ggg agg gcg gcc ttt ccc ccc agc ccc aga ggt ggg cct gcc ctt 668

Ser	Gly	Arg	Ala	Ala	Phe	Pro	Pro	Ser	Pro	Arg	Gly	Gly	Pro	Ala	Leu
55				60					65				70		

ttc cga gca tgg gac aca gcc cag gaa aac gca tgg ctt gtc ctc cag 716

Phe	Arg	Ala	Trp	Asp	Thr	Ala	Gln	Glu	Asn	Ala	Trp	Leu	Val	Leu	Gln
75						80					85				

aca cag gtg cta aca ggg ccg tca gac aag ggc cag gga ctc agg ctt 764

Thr	Gln	Val	Leu	Thr	Gly	Pro	Ser	Asp	Lys	Gly	Gln	Gly	Leu	Arg	Leu
90					95						100				

tta gga att tca gct cca gag cca cca tgc agt ggg acc agg ggt ctg 812

Leu Gly Ile Ser Ala Pro Glu Pro Pro Cys Ser Gly Thr Arg Gly Leu

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105

110

115

cgt gga cag gaa gca agc tgt gta gac ggg ggt cca tgaagtagag 858

Arg Gly Gln Glu Ala Ser Cys Val Asp Gly Gly Pro

120

125

130

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<211> 130
<212> PRT
<213> Homo sapiens

<400> 2
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Gly Thr Gln Val Gln Arg Leu His Arg Pro Ser Arg Arg Cys Phe

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35

40

45

Gln Ala Pro Trp Thr Asp Ser Gly Arg Ala Ala Phe Pro Pro Ser Pro
 50 55 60

Arg Gly Gly Pro Ala Leu Phe Arg Ala Trp Asp Thr Ala Gln Glu Asn
 65 70 75 80

Ala Trp Leu Val Leu Gln Thr Gln Val Leu Thr Gly Pro Ser Asp Lys
 85 90 95

Gly Gln Gly Leu Arg Leu Leu Gly Ile Ser Ala Pro Glu Pro Pro Cys
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Ser Gly Thr Arg Gly Leu Arg Gly Gln Glu Ala Ser Cys Val Asp Gly
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Gly Pro
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<210> 3

<211> 285

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(285)

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cgt ggg gtg agc ctg gga ctg tgg gca gag aac ctc aag cac cgg gcc 96

Arg Gly Val Ser Leu Gly Leu Trp Ala Glu Asn Leu Lys His Arg Ala
 20 25 30

ggc acc caa gtg cag aga ctg cat cgt ccc aac agg agg cgc tgc ttc 144

Gly Thr Gln Val Gln Arg Leu His Arg Pro Asn Arg Arg Arg Cys Phe
 35 40 45

cag gct ccc tgg acg gac tcc ggg agg gcg gcc ttt ccc ccc agc ccc 192

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Gln Ala Pro Trp Thr Asp Ser Gly Arg Ala Ala Phe Pro Pro Ser Pro
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aga ggt ggg cct gcc ctt ttc cga gcg tgg gac aca gcc cag gaa aac 240
Arg Gly Gly Pro Ala Leu Phe Arg Ala Trp Asp Thr Ala Gln Glu Asn
65 70 75 80
gca tgg ctt gtc ctc cag aca cag ggc gag ttt gga cgg caa gac 285
Ala Trp Leu Val Leu Gln Thr Gln Gly Glu Phe Gly Arg Gln Asp
85 90 95

<210> 4
<211> 95
<212> PRT
<213> Homo sapiens

<400> 4
Met Asp Pro Asp Val Val Leu Trp Ser Cys Thr Trp Lys Pro Ala Leu
1 5 10 15
Arg Gly Val Ser Leu Gly Leu Trp Ala Glu Asn Leu Lys His Arg Ala
20 25 30
Gly Thr Gln Val Gln Arg Leu His Arg Pro Asn Arg Arg Cys Phe
35 40 45
Gln Ala Pro Trp Thr Asp Ser Gly Arg Ala Ala Phe Pro Pro Ser Pro
50 55 60
Arg Gly Gly Pro Ala Leu Phe Arg Ala Trp Asp Thr Ala Gln Glu Asn
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Ala Trp Leu Val Leu Gln Thr Gln Gly Glu Phe Gly Arg Gln Asp
85 90 95

<210> 5
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<212> DNA
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<220>
<223> Description of Artificial Sequence:primer GSP1

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<210> 6
<211> 23
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<213> Artificial Sequence

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<223> Description of Artificial Sequence:primer GSP2

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<210> 7
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
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<210> 8
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<400> 8
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<210> 9
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<213> Artificial Sequence

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<223> Description of Artificial Sequence:primer RTF-6

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<210> 10

<211> 25

<212> DNA

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<223> Description of Artificial Sequence: -actin reverse primer

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<210> 11

<211> 25

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: -actin forward primer

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<210> 12

<211> 127

<212> DNA

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<223> fragment of sequence AQ548392, nucleotide 1 correspond to nucleotide 304 and nucleotide 127 correspond to nucleotide 430 of the complete sequence

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<309> 2001-12-11

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tagcacc 127